| [TB1] B. Gas Sensors (Materials & Sensing Mechanisms)-3 | |
|---|---|
| **Session Date** | November 10 (Tue.), 2026 |
| **Session Time** | 10:40-12:20 |
| **Session Room** | Room B (Conference Room 515) |
| **Session Chairs** | Prof. Ammar Zakaria (Universiti Malaysia Perlis),<br>Prof. Seong-Yong Jeong (Jeonbuk National University) |

**[TB1-1] [Invited]** **10:40-11:05**

**Wearable Gas Sensors based on Conductive Metal-Organic Frameworks**

Tianshuang Wang

*Jilin University, China*

**[TB1-2]** **11:05-11:20**

**Humidity-Dependent VOC Sensing Mechanism of $SnO_2$ Nanorods**

Koichi Suematsu[1], Tobias Köninger[2], Udo Weimar[2], and Nicolae Barsan[2]

*[1]Kyushu University, Japan, [2]University of Tübingen, Germany*

**[TB1-3]** **11:20-11:35**

**The Enhancing Effect of Two-Dimensional Ultrathin Pd Metallene in Gas Sensing**

Ziyu Liu, Tianrun Zheng, Fengmin Liu, and Geyu Lu

*Jilin University, China*

**[TB1-4]** **11:35-11:50**

**Hybrid Polymer–Clay Hydrogels with Tunable Ionic Conduction for Highly Selective Room-Temperature Gas Sensing**

Tanay Saha and Paramesh Gadige

*Sri Sathya Sai Institute of Higher Learning, India*

**[TB1-5]** **11:50-12:05**

**Anisotropic Growth of Vertically Aligned Quasi-2D SnO Nanoflakes via High-Temperature Glancing Angle Deposition for High-Performance Gas Sensing**

Jae Han Chung, Do Yeong An, Seungbeom Jeong, Yun-Gyu Lee, Seong Been Yun, Eunsol Lee, and Young-Seok Shim

*Korea University of Technology and Education, Korea*

**[TB1-6]** **12:05-12:20**

**Multidimensional Tuning of Nanoalloy-Sensitized Oxide Gas Sensors: From Spatial Distribution to Compositional Optimization**

Fengmin Liu and Geyu Lu

*Jilin University, China*